

540934
10/540934

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060476 A2

- (51) International Patent Classification⁷: **A61N**
- (21) International Application Number:
PCT/US2003/041437
- (22) International Filing Date:
29 December 2003 (29.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/437,392 31 December 2002 (31.12.2002) US
60/471,829 20 May 2003 (20.05.2003) US
- (71) Applicant (for all designated States except US): **THE JOHNS HOPKINS UNIVERSITY** [US/US]; 100 N. Charles Street, 5th Floor, Baltimore, MD 21201 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **HARMON, John, W.** [US/US]; 2901 Boston St., #606, Baltimore, MD 21224 (US).
- (74) Agent: **KAGAN, Sarah, A.**; Banner & Witcoff, Ltd., 11th floor, 1001 G Street, NW, Washington, DC 20001-4597 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

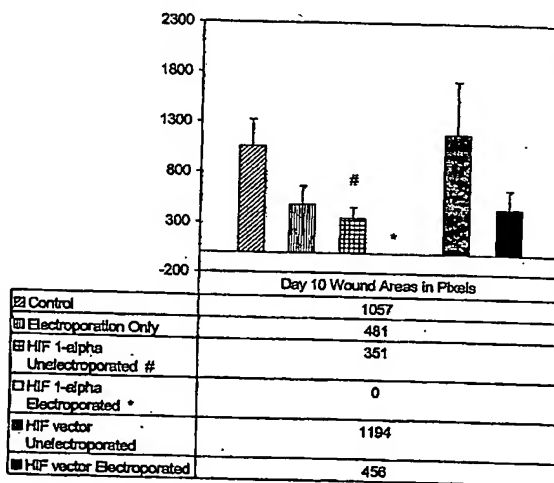
Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **WOUND HEALING METHOD AND KITS**

Wound Areas Day 10



(57) Abstract: Electroporation is used to enhance the wound-healing benefit provided by transfection of nucleic acids that encode cellular growth factors. Wounds which are amenable to the method include *inter alia* cutaneous lesions, muscular lesions, osseous lesions, burn wounds, and gastrointestinal anastomoses. Kits comprise electrodes and nucleic acids encoding cellular growth factors.

BEST AVAILABLE COPY

WO 2004/060476 A2